

**IN THE CLAIMS**

Claims 1-16 and 47 are cancelled, without prejudice.

Claims 17, 29, 33, and 39 have been amended.

1-16 (Cancelled)

17. (Currently Amended) An RF module for testing an RF device under test in a test environment, said test environment emulating a wireless environment; said RF module comprising:

at least one RF isolation chamber, said RF isolation chamber including a connection port to connect to said RF device under test located within said RF isolation chamber, said connection port including connections so that a connected RF device under test is in RF connection with an adjustable attenuation component, and wherein said adjustable attenuation component is in RF connection with an RF port on said RF module;

a an RF device controller, in communication with said RF device under test, said RF device controller to control said connected RF device under test.

18. (Previously Presented) The RF module of Claim 17 wherein said connected RF device under test includes a second RF connection; and said connection port includes connections so that said second RF connection on said connected RF device under test is in RF connection to a second adjustable attenuation component, said second adjustable attenuation component in RF connection with said RF port through an RF combining component.

19. (Original) The RF module of Claim 17 wherein said RF port on said RF module allows interconnection to an RF combining component, said RF combining component to combine RF signals from other RF devices.

20. (Original) The RF module of Claim 19 wherein said RF port on said RF module is electrically connected to a DC signal detector, to detect DC signals emanating from other RF modules interconnected with said RF combining component.
21. (Original) The RF module of Claim 20 further including a DC signal injector electrically connected to said RF port on said RF module.
22. (Original) The RF module of Claim 17 wherein said RF isolation chamber contains RF signals emanating from said connected RF device under test.
23. (Original) The RF module of Claim 17 wherein said RF isolation chamber isolates said connected RF device under test from outside RF signals and noise.
24. (Original) The RF module of Claim 17 wherein said connection port includes RF isolation shielding to contain RF signals emanating from a connected RF device under test.
25. (Original) The RF module of Claim 17 further including a plurality of RF signal access locations to provide access to RF signals at each of said plurality of RF signal access locations.
26. (Previously Presented) The RF module of Claim 25 wherein said plurality of RF signal access locations allow injection of RF signals at said RF signal access locations.
27. (Original) The RF module of Claim 17 wherein said RF module receives a system synchronization signal for use in processing received data from said connected RF device under test.

28. (Original) The RF module of Claim 17 wherein said RF module is detachably mountable within an RF isolation chassis, wherein said RF port on said RF module connects to an RF combining component within said RF isolation chassis, said RF combining component combining RF signals from said RF module and at least one other RF device.

29. (Currently Amended) A test module, for use in a RF test environment, comprising:

an RF port to connect to said RF test environment;

an adjustable attenuation component in RF connection with said RF port;

~~a~~ an RF modulator/demodulator component, in RF connection with said adjustable attenuation component;

a virtual client emulator, to emulate ~~at least one virtual client that is~~ a plurality of virtual clients that are transmitting RF signals in said RF test environment;

wherein said virtual client emulator is in communication with said RF modulator/demodulator component to allow said ~~at least one virtual client~~ plurality of virtual clients to transmit RF signals into said RF test environment.

30. (Original) The test module of Claim 29, wherein said virtual client emulator includes:

a receive filter and distributor (RFD) component, to process data frames received from said RF test environment; and

a transmit arbitrator component, to process and transmit data frames to said RF test environment.

31. (Original) The test module of claim 30 wherein said transmit arbitrator component creates data frames that are invalid in accordance with a selected protocol for said RF test environment.

32. (Original) The test module of claim 30 wherein said transmit arbitrator component creates data frames with incorrect checksums.

33. (Currently Amended) The test module of claim ~~29~~ 30 wherein said transmit arbitrator component transmits a data frame at a time when another device is transmitting data in said RF test environment, in order to cause a collision.

34. (Original) The test module of claim 29 wherein said adjustable attenuation component changes attenuation based on a selected virtual client transmitting RF signals into said RF test environment.

35. (Original) The test module of claim 29 wherein said adjustable attenuation component changes attenuation for certain data frames being transmitted into said RF test environment.

36. (Original) The test module of claim 29 wherein said test module receives data frames from a wired data packet network, and said test module transmits said received data frames in said RF test environment.

37. (Original) The test module of claim 29 wherein said test module is detachably mountable within an RF isolation chassis, wherein said RF port on said test module connects to an RF combining component within said RF isolation chassis, said RF combining component combining RF signals from said test module and at least one other RF device.

38. (Original) The test module of claim 37 and wherein said RF port is detachably connectable to an RF combining component, said RF combining component combining RF signals from said test module and at least one other RF device.

39. (Currently Amended) A method of emulating traffic in an RF test environment, comprising:  
providing a modulator/demodulator component, said modulator/demodulator component transmitting and receiving in said RF test environment;

providing a virtual client emulator ~~creating a plurality of virtual clients~~ in connection with said modulator/demodulator component, wherein said virtual client emulator creates a plurality of virtual clients that transmit and receive data frames in said RF test environment through said modulator/demodulator component, and wherein said virtual client emulator ~~virtual clients~~ ~~each~~ maintains information regarding such data frames for each virtual client.

40. (Original) The method of claim 39 wherein said virtual clients transmit and receive data frames in compliance with a selected wireless communications standard.

41. (Original) The method of claim 39 wherein when at least one virtual client is transmitting data frames into said RF test environment, a signal strength of an RF signal being transmitted from said modulator/demodulator component into said RF test environment is reduced.

42. (Original) The method of claim 39 further including providing transmission arbitration for said plurality of virtual clients.

43. (Previously Presented) The method of claim 39 further including transmitting in said RF test environment data that is invalid according to a communication protocol.

44. (Original) The method of claim 39 further including transmitting in said RF test environment data with invalid checksums.

45. (Previously Presented) The method of claim 42 wherein said transmission arbitration includes an ability to transmit at a time to create an on-air collision with another device transmitting in said RF test environment.

46. (Original) The method of claim 39 wherein said modulator/demodulator component is in RF connection with an RF combining component, said RF combining component combining RF signals from a plurality of RF devices.

47. (Cancelled)

48. (Previously Presented) A method for testing a roaming feature of a wireless device, said method comprising:

- isolating said wireless device in an RF isolation chamber;

- providing a first and second access points, wherein each access point is in RF connection with said wireless device by a shielded RF path to an RF combining component, said RF combining component in RF connection with said RF isolation chamber;

- establishing RF communications between said wireless device and said first access point over one of said shielded RF paths;

- attenuating an RF signal on said shielded RF path between said RF combining component and said first access point;

- monitoring said wireless device as said wireless device establishes RF communication with said second access point over said shielded RF path to said second access point.

49. (Previously Presented) The method of Claim 48 wherein said step of monitoring said wireless device includes monitoring RF signals between said wireless device and said access points at locations on said RF shielded paths.

50. (Previously Presented) The method of Claim 48 wherein said step of attenuating an RF signal is performed using a programmable attenuator along said shielded RF path.

51. (Previously Presented) The method of Claim 50 further including:

providing a central controller for controlling a plurality of programmable attenuators, with a programmable attenuator along each of said shielded RF paths.

52. (Previously Presented) The method of Claim 48 wherein said step of monitoring said wireless device includes measuring the time required for said wireless device to establish RF communication with said second access point.